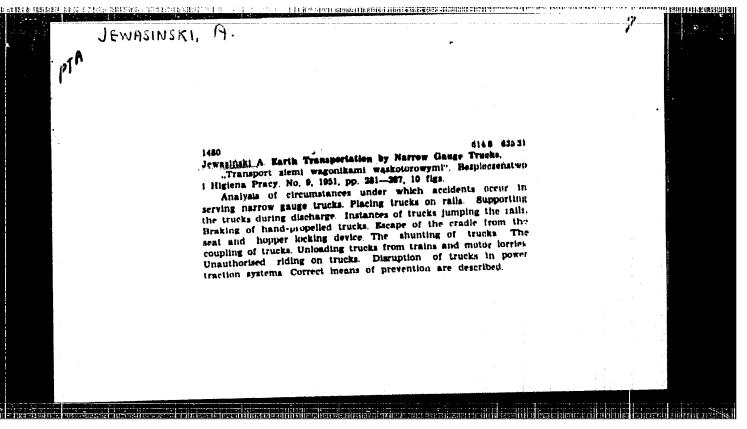


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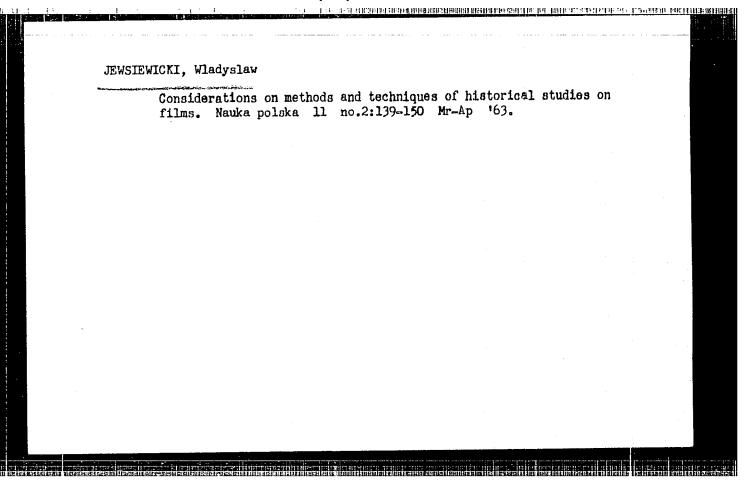
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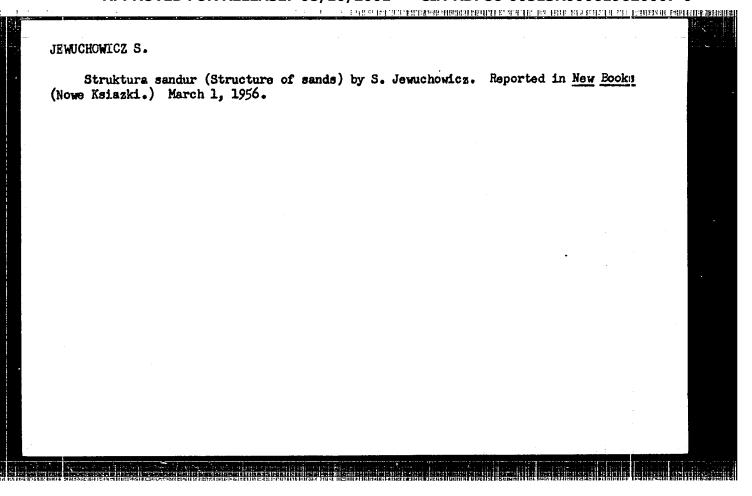
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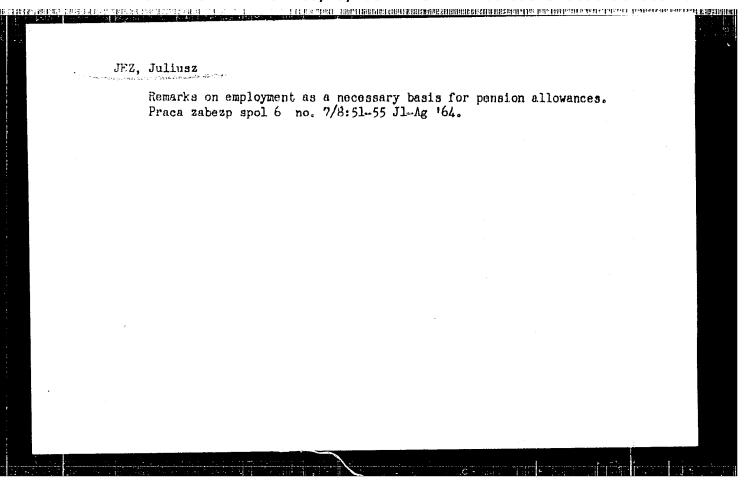
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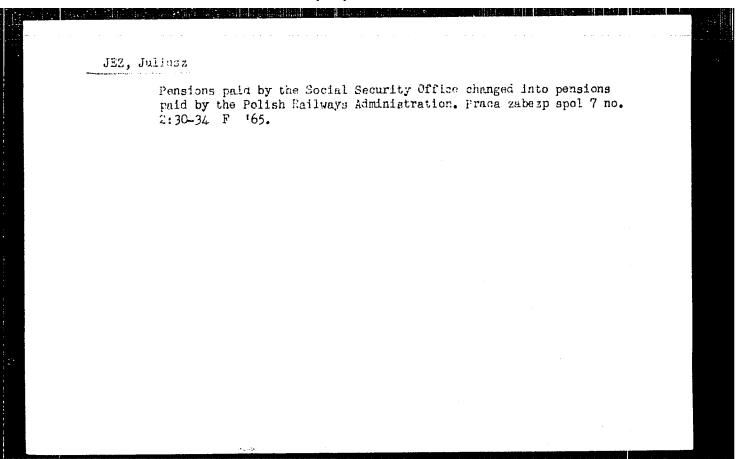
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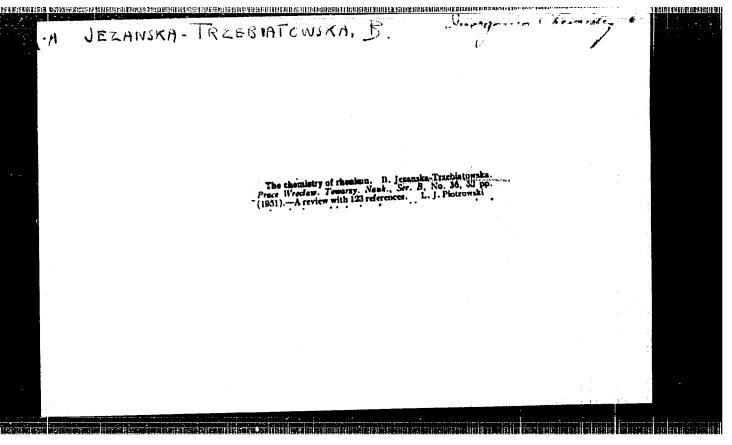
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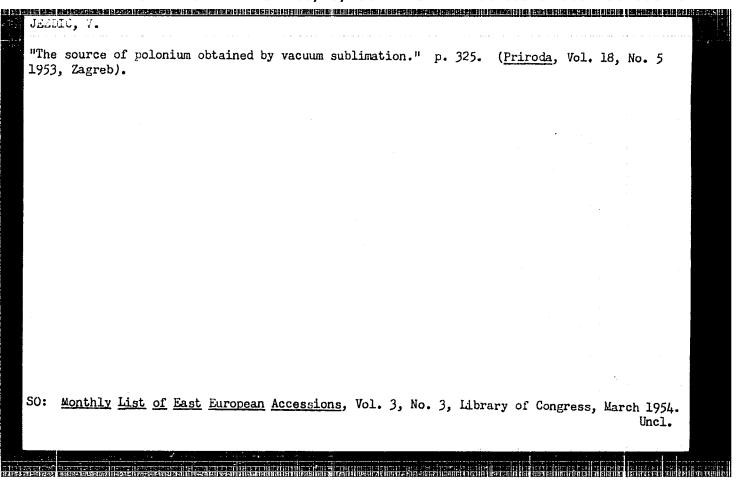
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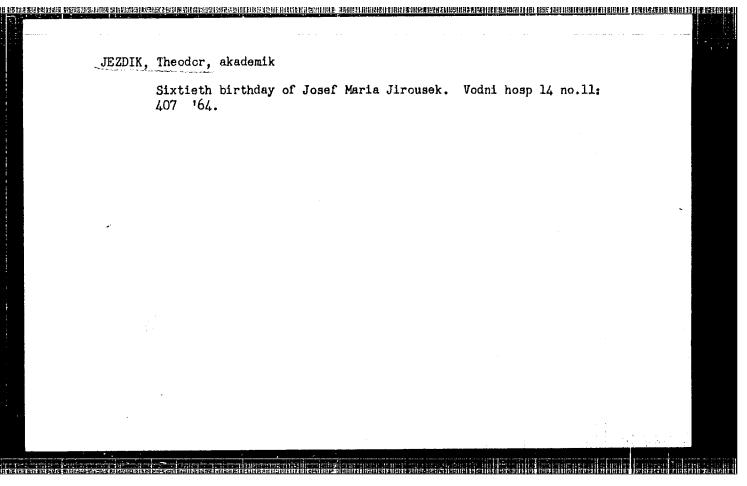
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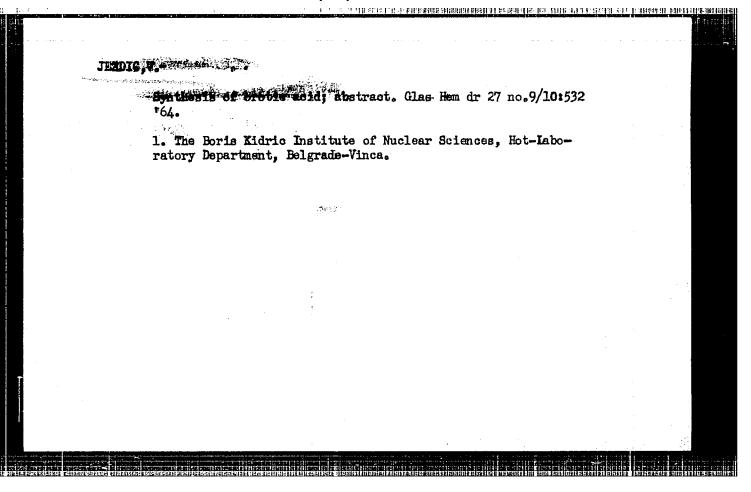
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3704-66 EMT(m) DIAAP ACCESSION NR: AP5028232

10/0020/65/000/002/0001/0001

AUTHOR: Jezdic, Vojislav (Senior professional associate, President)

TITLE: Radioisotope production /9

SOURCE: Nuklearna energija, no. 2, 1965, 1

TOPIC TAGS: radioisotope, chemical labelling, radiation chemistry, nuclear physics research facility, chemical research facility

ABSTRACT: The very widespread application of radioisotopes in the world and the importance of the results attained, postulate in our country too their accelerated introduction in scientific and technological disciplines. One of the conditions supporting a fast development of radioisotope application is the existence of one's own production. Construction of the first nuclear reactors was planned so that they would be of a type to enable a normal production of radioisotopes. A 6.5 Mw reactor, a cyclotron with a charged particles beam (deuterons up to 16 Mev, protons up to 8 Mev, and alpha particles up to 32 Mev) and a planned 200-kw TRIGA Mark reactor are discussed as sources of radioisotopes. Procedures for the production of radioisotopes and labeled compounds were worked out. The necessary laboratories and equipment were constructed to be used both for the production of radioisotopes and labeled compounds, and for their detection and measurements. Card 1/2.

Card 2/2

L 3705-66 ACCESSION NR: AP5028233

TU/0020/65/000/002/0002/0009

AUTHOR: Teofilovski, Cedomir (Section chief of laboratory of high activity chemistry, Graduate engineer, Senior professional associate); Jezdic, Volislay (Graduate engineer, Senior professional associate)

TITLE: Production of radioisotopes and labelled compounds at the Boris Kidrio Institute of Nuclear Sciences

SOURCE: Nuklearna energija, no. 2, 1965, 2-9

MOPIC TAGS: radioisotope, chemical labelling, radiation chemistry, chemical research facility, nuclear physics research facility

ABSTRACT: Research associated with the production of radioisotopes was initiated in 1957. In early 1959 the hot chemistry laboratory was set up to cover the production of radioisotopes, and later the production of labeled compounds. For implementation of the program it was essential to have a number of problems solved; training of staff for work with radioisotopes at high activity levels; technology of material irradiation in the reactor; distribution of radioisotopes and labeled compounds; improvement of known and mastery of new methods for production of radioisotopes and sources of radiation requiring chemical treatment of targets; development and mastery of procedures for the production of labeled compounds; Card 1/3

L 3705-66 ACCESSION NR: AP5028233

development of a method for the chemical, radiochemical, radiometric, and pharmaceutic control of the products obtained; designing, staffing, and equipping the Raboratory; and designing and building of the necessary facilities and shielding for work with radioisotopes at distance and behind the shielding. The hot laboratory produces a number of radioisotopes requiring simple treatment after irradiation in the reactor, such as dissolution of irradiated targets, filtration of the solution, etc. These include radioactive solutions with the isotopes: sup 42 K, sup 24 Na, sup 45 Ca, sup 89 Sr, etc. which were obtained from the irradiated carbonates; sup 60 Co, sup 65 Zn, sup 110 Ag obtained by irradiation of pure metals; and sup 32 P with carrier, sup 141 Ce, and sup 59 Fe produced from irradiated oxides. However, the production of radioisotopes for application in medicine and some investigations requiring a pure radioisotope of high specific activity in most cases without carrier, is more complex. Therefore, their production is ausociated with a number of radiochemical separations. Work was carried out to make possible a permanent synthesis of a number of labeled compounds needed for research. First, work was conducted on the chemical synthesis of sup 14C-labeled compounds, and later syntheses were initiated with sup 35S and sup 32P; now the synthesis is planned of compounds labeled with other radioisotopes such as sup 3 H, halogens, (tc. Procedures were developed for the production of eighteen compounds labeled with sup 14 C, six sup 35 S-labeled compounds and five sup 32P- labeled compounds. In addition to the production of radioisotopes and labeled compounds, distribution also had to Card 2/3

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Card 3/3				

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Patol.-anatem. ustav (prednesta: doc. dr. V. Valach) lekarske fakulty Paleckeho University v Olomouci.

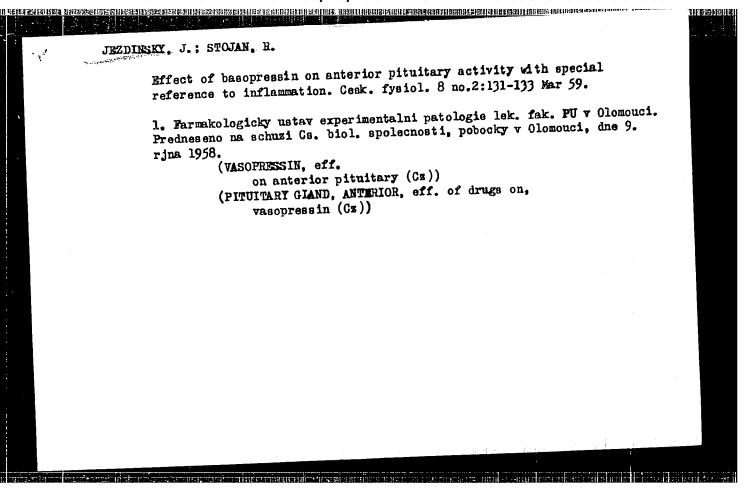
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(VASOPRESSIN pharmacol.)

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(PROCAINE therapy) (AGING)
(ARTERIOSCIEROSIS in old age)

STDJAN, B.; JEZDINSKY, J.

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(PITUITARY GLAND POSTERIOR hormones)

CZMCHODLON *ZYA

JEZDIUSKY, J., Pharmacological Institute (Parmakologicky ustay), Faculty of Modleine (Rokarska fakulta). Palacky University, Glomous, Docent Dr J. DEMPETD, director, and STOJAN, B., Institute of Pathological Physiology (Ustav patologicke fyziologie), Faculty of Modicine, Palacky University, Glomous, Docent Dr J. HRBEK, director.

"Influence of the Admixture of Substances from the Fosterior Hypophyseal Lobe on the Antiexudative Effect of ACTH Preparations"

Prague, Casobis Lekaru Ceskych, Vol CII, No 22, 31 May 63, pp 593-600.

Abstract [Authors' English summary, modified]: On the basis of previous experiments, which proved the anti-inflammatory effect of substances from the posterior hypophyseal lobe, the authors suggest that the admixture of substances from the posterior hypophyseal lobe to ACTH preparations may participate in the anti-xudative effect of these preparations, as confirmed in rats. A removal of the admixture from pre-

ACC NR: AP6006058	SOURCE CODE: CZ/OC	053/65/014/004/0301/03	05
UTHOR: Lenfeld, J.; Jezdinsky,	J.; Dusek, J.	nat	/
ORG: Department of Pharmacology University, Olomouc (Katedra farm	and Pathological Anatomy, Me	dical Faculty, Palack	y
TITIE: Effect of caffeine, reservats with damaged adrenal medulla harmacologic Days, Smolenice, 29	rpine and apomorphine on infl		
OURCE: Ceskoslovenska fysiologi	e, v. 14, no. 4, 1965, 301-3	· · · · · · · · · · · · · · · · · · ·	
OPIC TAGS: drug effect pharmaco			
BSTRACT: In rats who were surginedullectomized, caffeine, reserpanti-exudative effect; even revertather than serotonin, as stated b	ically or chemically (ethanol pine and apomorphine has less rted. Thus, adrenomedullary c by others, are apparently medi) adreno- of an atecholamines	
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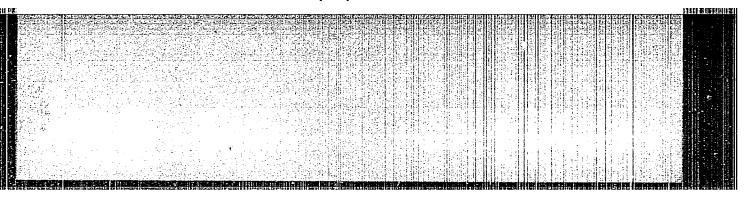
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JEZEK, F.

Equipment is prepared: turn on the switch and start! p.7

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Monthly List of East European Accessions (EEAI) LC. Vol. 8, No. 9, September 1959 Uncl.



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	PHASE I BOOK EXPLOITATION Z/6284	
	Jerie, Jan, ed., Engineer, Doctor, Corresponding Member of the Czecho- slovak Academy of Sciences	
	Základní problémy ve stavbě spalovacích turbin (Basic Problems in the Construction of Gas Turbines [collection of articles]). Prague, Nakl. ČAV, 1962. 627 p. 1600 copies printed.	
	Sponsoring Agency:/ Československá akademie věd.	
	Ed. of Publishing House: Marie Moravcová; Tech. Ed.: František Končický.	
	PURPOSE: The book is intended to familiarize turbine designers with recent developments in the design of gas turbines and to present some research results which may be helpful in designing more efficient turbines.	
	COVERAGE: The book comprises articles by leading Czechoslovak turbine experts on thermodynamic cycles, flow research in turbine components,	
	burning of fuel in combustion chambers, axial compressors, and characteristics of turbines manufactured in Czechoslovakia.	
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	L. Cizok and M. Vystyd (State and Technology, Prague). Curr Heat-Resistant Materials for G	Research Institute for Materia ent State and Development of	lis			
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1	Z. Eminger (V. I. Lenin Plant, Research Institute for Materia The Austenitic Alloy "IZ"	Plzen) and J. Krumpos (State ls and Technology, Prague).	211			
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JEER, Jaroslav, MuDr.

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Cas. lek. cesk. 95 no.15:406-409 13 April 56.

1. OUNZ Ostrava I. inter. oddel, prednosta prim. Dr. L. Robacek technicka cast: Ing. Vrateilav Fibinger, asist. katedry obec.

Stroj. VSB.

(BRONCHITIS

chronic, evaluation of ventilation capacity, elasticity of pulm. tissue, & cond. of bronchi, technic. (Gz))

(MPHYSMA, PULMONARY, diagnosis

(same)
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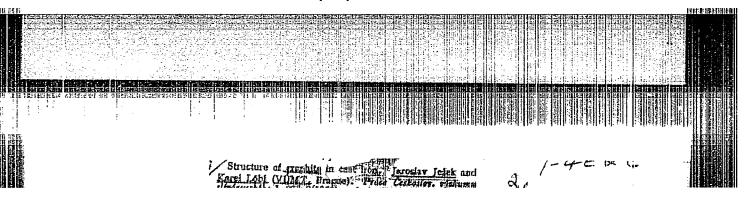
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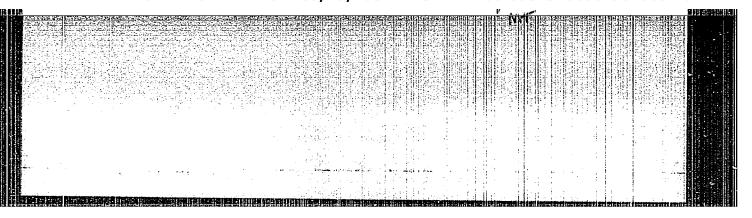
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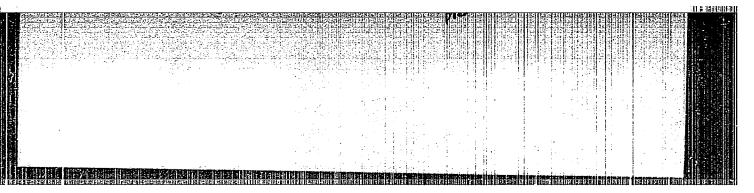


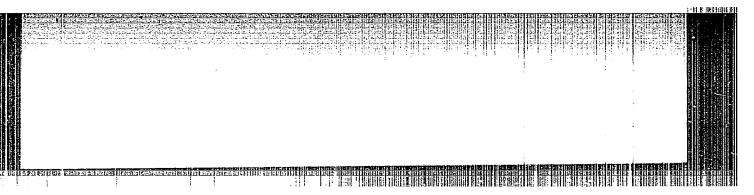
Jezek, J.; Lobl, K.

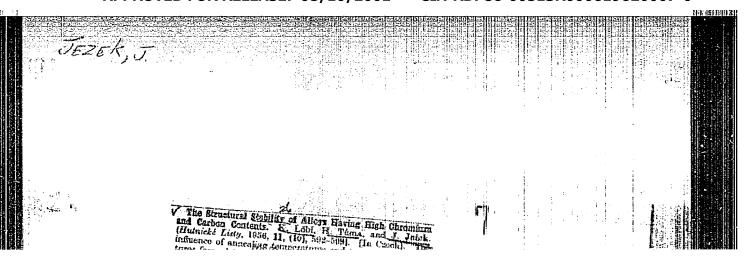
Jezek, J.; Lobl, K. Contribution to the morphology of graphite in cast
iron. Frace. p. 53.

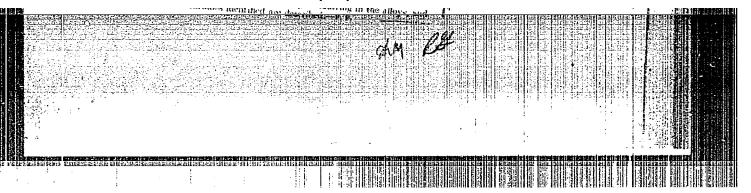
Vol. 4, no. 12, Dec. 1956
SLEVARENSTVI
TECHNOLOGY
Gzechoslovakia

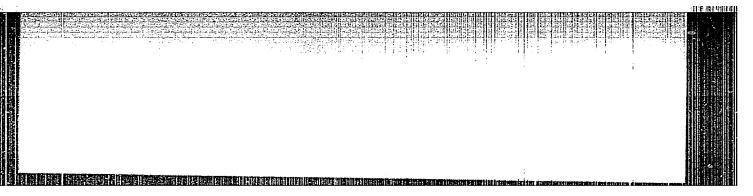
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-YEZHEK, E. JEZEK, J

70-5-16/31

AUTHORS: Yezhek, I., Koritta, I., Doctors of Technical Sciences, Lebi, K., Candidate of Technical Sciences

TITLE: On the Question of the Morphology of Spherulitic Graphite

in High-strength Cast Iron (K voprosu o morfologii sharovidnogo grafita v vysokoprothnom chugune)

TERIODICAL: Kristallografiya, 1957, Vol.2, No.5, pp. 663-669 (USSR).

ABSTRACT: Investigations of graphite which had separated in grey, high-strength and malleable cast irons showed that the flakes had different mutual orientations in each case. In high-strength cast iron the graphite does not separate as spheres but the form is determined by the growth of crystallites in the [10.0] direction. No signs of nuclei were found at the centres of the grains even with the best electron microscopic techniques. Hence, the "nuclei" which can often be seen in optical microscopy must be illusory. The surface layers of spherulitic graphite in specimens of iron from ferrite annealing are shown. It was established that the separate elementary platelets of graphite in carbon of malleableizing are usually 5 to 50 times greater than in grains of cast iron with spherulitic graphite and are of the order of magnitude of the floccular graphite which initially separates in grey iron.

Cardl/2 Replicas for microscopic examination in the Czech-made Tesla

70-5-16/31 On the Question of the Morphology of Spherulitic Graphite in High-Moongth Cast Iron.

microscope (resolving power 100 A) were made as follows: specimens were polished with Swedish SIA metallographic polishing paper, then with successively finer grades of diamond powder in glycerin on photographic paper; then they were polished for 1-3 min on polishing discs coated with velvet and covered with a water suspension of alumina from P.F. Duyardin-Tonerde Nos. 1, 2 and 3. The specimens were etched with nital for 20 sec and after washing a drop of 1% collodion in amylacetate was put on the surface. The resulting replica was floated off on hot water and had a thickness of 600-800 A. Plates are shown of floccular graphite in ferritepearlite grey iron. The remaining plates are of sections of graphite spherulites. There are 13 plates, 2 figures, 1 table and 8 non-Slavic

references.

ASSOCIATION:

Scientific Research Institute for Materials and

Technology, Prague.

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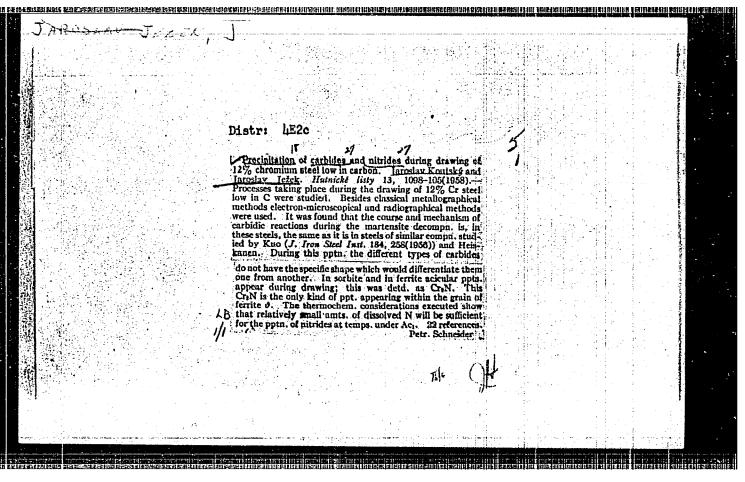
December 9, 1956.

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- JEZEK,	, T.		<u> </u>			
	P The influence speed steels. Pricha. Maleri The structure and 11-4-4 high-spee ment, metallogra described. In o structure analyse investigated by a steels is mainly in its heat-treatmen with nonhomoger reduces consider secondary hardness.	of structure on some prosef Vobořil, Juroslav Jovy Sbornik 1958, 193-22 properties of 18-4-1 (W-d steels are discussed, play, and the so-called 2 pdr, and the sept. carbides have lectron microscopy. The fluenced by the structure to The formation of coarous distribution must be ably the toughness of as is caused by the decayen, of the fibrous ppt.	Jetek, and Jif- in(Pib. 1959).— Cr-V), 9-4-2, and Thermal treat- dud hardness are ienomena, x-ray we been made and e quality of tool e of the steel and see carbide grains we avoided, as it the steel. The	- 4/2		
						ine control

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619620007-0"

31031-66 JXT(BF ACC NR: AP6022930 SOURCE CODE: CZ/0024/66/000/001/0007/0013 AUTHOR: Jezek, Jaromir (Engineer); Klimes, Kilan (Engineer) 8 ORG: Jezek A. Zapotocky Military Academy, Brno (Vojenska akademie A. Zapotockeho); Klimes Geodetic and Cartographic Institute. Brno (Ustav geodesie a kartografie) TITIE: Electrophotography and electrostatic printing SOURCE: Geodeticky a kartograficky obzor, no. 1, 1966, 7-13 TOPIC TAGS: electrophotography, electrostatic printer, printing machinery ABSTRACT: Electrostatic printing, its theory, application, and apparatus commercially available for this purpose are described. A Polish instrument "Pylorys KS 2" suitable for reproductions with dimensions 210x297 mm is described. The price of the instrument is about 40,000 Kcs. The Czech instrument "Xerograf" suitable for reproductions with the dimensions 600x600 mm is described. The Electrofax system, and the individual phases of its operation are discussed. Printing plates "Elfasol" are described and evaluated. This paper was presented by Engineer Miroslav Miksovsky, USGK, Prague. Orig. art. has: 9 figures. [JPRS] SUB CODE: 14, 09 / SUBM DATE: none / ORIG REF: 002 / SOV REF: OTH REF: 006 Cord 1/1 2 C

图 全者主要要的主要,但可以完全还有过到我们和自然的对象,就是不是不是不是一个,我们们还是一个,我们们的一个,我们们的一个,我们们的一个,我们们们的一个,我们们 CZECH/34-59-1-9/28 Ježek, Jaroslav, RNDr. and Vobořil, Josef, Ing. On the Secondary Hardness of High-Speed Steel AUTHORS: (O sekundární tvrdosti rychlořezné oceli) PERIODICAL: Hutnické Listy, 1959, Nr 1, pp 47-54 (Czechoslovakia) ABSTRACT: Structural changes in high-speed steel during its treatment and in normal operation has a decisive influence on the performance and service life of the tool. Study of the pertaining phenomena is particularly important from the point of view of manufacturing cast high-speed steel tools, since such tools are not forged and the desired properties must be achieved by suitable choice of the composition and heat treatment. In order to gain information on the function of individual alloying elements and on the structural changes typical for this material, the authors studied (Ref 2) the formation of precipitates during tempering of the high-speed steel CSN 19 800 (0.82% C, 0.25% Mn, 3.90% Cr, 9.09% W, 1.85% V), particularly as regards the secondary hardness. To obtain information on the changes in the carbide phases, specimens which were quenched from 1240 C in oil were tempered for 2 x 1 hour at temperatures of 100 to 700°C. Card 1/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619620007-0"

CZECH/34-59-1-9/28

On the Secondary Hardness of High-Speed Steel

After the heat treatment the specimens were cut and one half of each was subjected to electrolytic isolation (Ref 12), whilst the second half was used for other tests. For studying the structural changes, electrolytic isolation and extraction-collodium replicas were used in addition to hardness tests. For analysing the structure of the basic substance and of the precipitates, optical and electron microscopic study as well as X-ray and electron structural analysis were used. Thus, from each specimen an optical structural exposure was made, an electron exposure of the extraction replica and of the isolated substance as well as an X-ray exposure of the isolated substance or the extracted replica and in some cases also an electron diffraction picture was taken of the precipitates on the replica. As check tests X-ray diffraction patterns were made of compact specimens which were etched electrolytically. exhaustive studies of the changes occurring in this steel during tempering in the temperature range 100 to 700°C revealed that the secondary carbides separate out

Card 2/3

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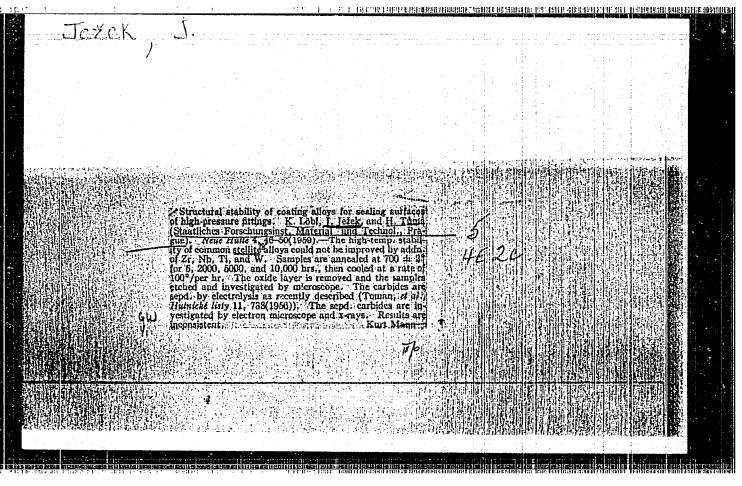
On the Secondary Hardness of High-Speed Steel

in the following order: Fe₄W₂C, W₂C, Fe₃W₃C, VC. It was found that the carbide W₂C is present in the structure in the form of a morphologically distinct particle even at 400°C and, therefore, W₂C cannot possibly have a hardening effect on the basic martensite matrix in the range of secondary hardness. It was also found that the transformation of residual austenite into martensite and the beginning of precipitation of fibrous VC contribute to the secondary hardness; it is probable that these two phenomena follow each other and by applying a suitable technique it may be possible to distinguish one from the other. There are 7 figures, 1 table and 23 references, 7 of which are Czech, 10 English, 3 Soviet and 3 German.

ASSCCIATION: Státní výzkumný ústav materiálu a technologie, Praha (State Research Institute for Materials and Technology, Prague)

SUBMITTED: May 30, 1958

Card 3/3



CZECH/34-59-5-19/19
AUTHORS: Ježek, Jaroslav, RNDr., Koutský, Jaroslav, Candidate

Ježek, Jaroslav, RNDr., Koutský, Jaroslav, Candidate of Technical Sciences, Ing. and Pluhar, Jaroslav, Ing.Dr.

TITLE: The Nature of the Precipitates which Separate Out from Modified 12% Chromium Steel at Temperatures shows 550°C

Modified 12% Chromium Steel at Temperatures above 550°C (Podstata precipitatu vylučujících se z modifikovaných 12procentních chromových ocelí v oblasti nad 550°C)

PERIODICAL: Hutnické Listy, 1959, Nr 5, pp 469-472 (Czechoslovakia)

ABSTRACT: (Czechoslovak Metallurgical Research Reports).

The authors studied the precipitates of 12% Cr steels alloyed with small quantities of W, Mo, V and in some cases also Co (full analyses of the tested steels are entered in Table 1, p 469) after various heat treatment procedures, using chemical, electrolytic and extraction separation and electron and X-ray diffraction analyses. It was found that in steels, which in addition to chromium contain tungsten as the main alloying element,

the inter-metallic phase Fe₂W separates out from the 6-ferrite and sorbite after long duration annealing. This phase occurs in steels with 6-ferrite as well as

Card 1/2 in purely martensitic steels and its range of existence

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CZECH/34-59-5-19/19

The Nature of the Precipitates which Separate Out from Modified 12% Chromium Steel at Temperatures above 550 C

extends to the Ac₁ temperatures. In steels which have an increased Mo content and no W the isomorphous inter-metallic phase Fe₂Mo is present, the range of existence of which does not exceed 700°C. In chromium steels which do not have any further alloying additions, a small quantity of the nitride Cr₂N forms in addition to the carbide (Fe,Cr)₂₃C₆.

There are 3 figures, 4 tables and 14 references, 10 of which are Czech, 4 English.

ASSOCIATIONS: SVUMT Prague and VZÚ Závodu V. I. Lenina, Plzeň (V. I. Lenin Works, Pilsen)

SUBMITTED: February 7, 1959

Card 2/2

· [1] [] · [1] [] · [

CZECIL/34-59-8-9/16 Cíhal, Vladimír, Candidate of Technical Sciences, Engineer AUTHORS:

Ježek, Jaroslav, Doctor of Natural Sciences

On the Distribution of Precipitates in Stainless Austenitic TITLE:

Steels

PERIODICAL: Hutnické listy, 1959, Nr 8, pp 695 - 700

ABSTRACT: In earlier work (Ref 9) the authors studied the morphology

and the structure of precipitates in austenitic stainless

steels by X-ray diffraction and electron

structure analysis. The precipitation of the chromium carbides Cr26C6 proceeds at first in the shape of twodimensional dendrites which grow to certain critical dimensions and then become transformed into mome stable crystallographically perfect shapes. It was also found by one of the authors that the rejection of fine acicular carbides of titanium, which is controlled by the lower diffusion speed of titanium, is shifted towards higher temperatures (Ref 8). In this paper the authors studied the distribution of precipitates in austenitic stainless steels by means of an electron microscope. For this

Card1/3 purpose, extraction replicas had to be used. A simplified

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CZECH/34-59-8-9/16
On the Distribution of Precipitates in Stainless Austenitic Steels

method of preparation of extraction replica was applied which was described in an earlier paper of one of the authors (Ref 13). The studies were made on steel of the following composition: 0.05% C, 1.5% Mn, 0.62% Si, 18.48% Cr, 9.34% Ni. The following were studied: the carbide distribution in 18/9 steels; the effect of carbide precipitation on the sensitivity to intercrystallite corrosion and on the impact strength; Cr and Ti carbides in 18/9 steels (in an earlier paper (Ref 17) one of the authors and his team studied the precipitation of Cr and Ti carbides during delta-ferrite decomposition in titanium-stabilised steel of the following composition: 0.08% C, 1.18% Mn, 0.88% Si, 18.24% Cr, 9.25% Ni, 0.21% Mo, 0.8% Ti, 0.003% N); crystalline shape of the chromium carbide Cr₂₃C₆. It was found that the chromium carbides precipitate in austenitic steels in the form of discontinuous irregular networks, predominantly on one side of the grain boundaries. The morphology of carbides reproduced in the extraction replica was found to be the same as in isolated

Card2/3

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CZECH, 34-59-8-9/16

On the Distribution of Precipitates in Stainless Austenitic Steels

carbides. Extraction-replica methods can be used not only for studying the precipitation phenomena in stainless steel but also for developing new complex-alloyed high-creep-strength steels and alloys. There are 7 figures, 1 table and 21 references, of which 5 are English, 7 German, 9 Czech.

ASSOCIATIONS: Statní výzkumný ústav ochrany materiálu G.V. Akimova (State Research Institute for Protection of Materials (G.V. Akimov))

Státni výzkumný ústav materiálu a technologie, Praha (State Research Institute for Materials and Technology, Prague)

SUBMITTED:

April 23, 1959

Card 3/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619620007-0"

CZECH/34-59-9-7/22

AUTHORS: Jezek, Jaroslav, Doctor of Natural Sciences, Voboril, Josef, Engineer, Cihal, Vladimir, Engineer,

Candidate of Technical Sciences

Nature of the Phases Occurring in the Structure of TITLE:

Brittle Transformer Sheet

PERIODICAL: Hutnicks listy, 1959, Nr 9, pp 777-786

ABSTRACT: A comprehensive study of the changes in transformer sheet (4.34% Si, 0.02% C, 0.01% N) based on hardness measurements, thermal analysis, study by optical and electron microscopes , X-ray and electron structure analysis as well as the results of thermo-chemical analysis has shown that nitrogen is the active substance which brings about formation of brittle phases in the basic substance and at the boundary of the ferritic grains. Up to about 250°C it precipitates from the α solid solution in the form of the nitrides ${\rm Fe}_{16}{}^{N}{}_{2}{}^{-{\rm Fe}}{}_{4}{}^{N}$ which are embedded in the basic substance. A

considerably more dangerous form of separation of a secondary phase caused by nitrogen occurs in the temperature range 250 to 700°C when the nitrides are dissolved

Card 1/3 again and diffuse, together with silicon, to the boundaries

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619620007-0"

CZECH/34-59-9-7/22

Nature of the Phases Occurring in the Structure of Brittle Transformer Sheet

> of the ferritic grains, forming there coherent bands of precipitates consisting of Si_3N_4 . After annealing at 700°C a compact phase will exist at the grain boundaries, the main composition of which is the nitride Si_3N_L . By ι annealing at a higher temperature this phase can be made to dissolve again in the basic substance, as a result of which the excessive brittleness of the sheet will be eliminated. On the basis of the obtained results, the following conclusions are drawn relating to the manufacture of transformer sheet: nitrogen present in transformer steel brings about the formation of nitride phases which cause inadmissible brittleness of sheet produced from such steel; such phases can be made to dissolve in the basic ferritic structure by annealing at a temperature above 800°C, followed by rapid cooling (200°C/hour) and, by doing this, it is possible to prevent excessive brittleness of such sheets. Although by so doing it is possible to bring about dissolution of the nitride phases in the basic substance, in many cases such

Card 2/3 a procedure would require special equipment, quite apart

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CZECH/34-59-9-7/22

Nature of the Phases Occurring in the Structure of Brittle Transformer Sheet

from the fact that dissolution of the nitride phases in the basic substance is not favourable from the point of view of the magnetic properties. Therefore, the aim should be to use such processes for manufacturing high grade transformer sheet which prevent the formation of higher nitrogen contents, i.e. in oxygen blast It is possible that in the near future converters. the use of vacuum furnaces with melting off electrodes Acknowledgments will become an economic proposition. are expressed to Engineer P. Schier, Metallurgical Institute, CSAV, for making an electron microscope available, to J. Sevcikova for her assistance in carrying out the here described work and to Engineer H. Tuma for carrying out the thermal analysis and to Sruta for careful execution of the experimental work relating to the X-ray structural analysis. There are 13 figures, 1 table and 41 references, 6 of which are Czech, 6 German, 26 English and 3 International.

ASSOCIATIONS: SVUMT, Prague and SVUOM, Prague SUBMITTED: May 13, 1959
Card 3/3

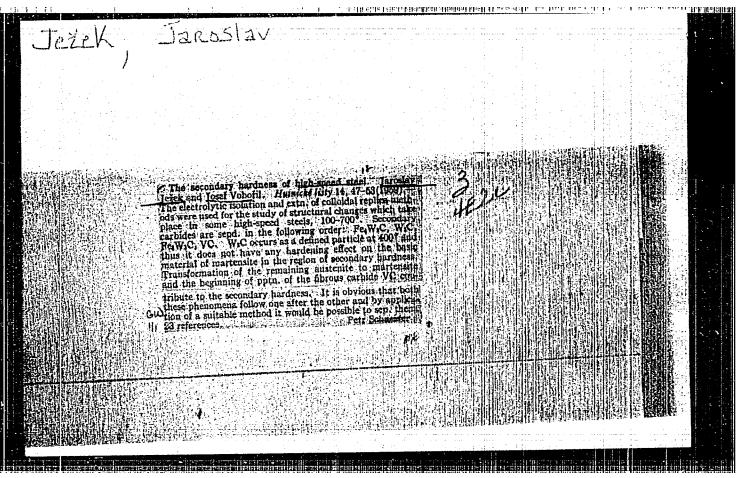
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JEZEK, J.; LOHI, K.

"Structural changes in surfacing alloys for high-pressure steam fittings." p. 88.

ZVARANIE. (Ministerstvo hutneho prumyslu a rudnych bani a Ministerstvo strojarenstva). Bratislava, Czechoslovakia, Vol. 8, No. 3, Mar. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

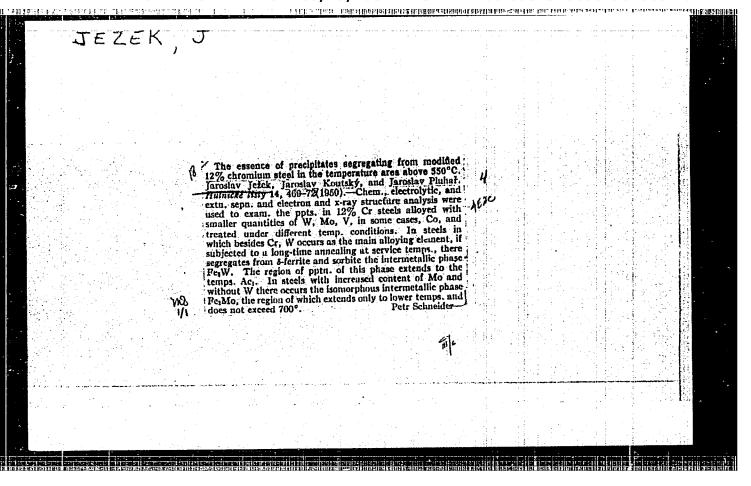


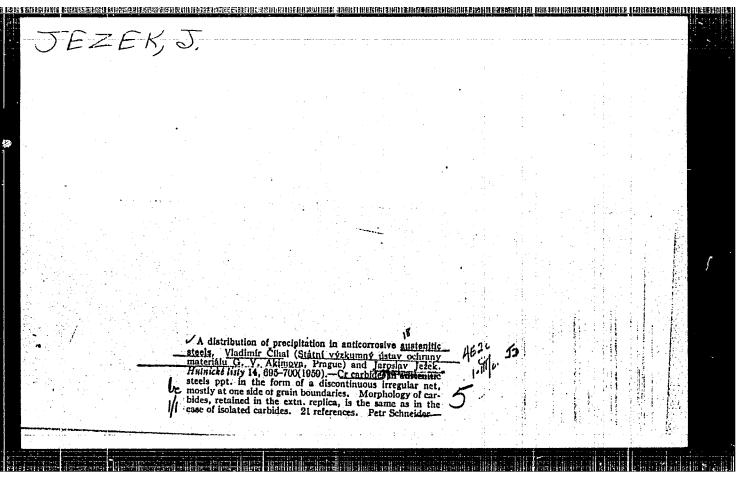
JEZEK, J. REHAKOVA, H.

"Dispersion of measurements and magnitude of errore in X-ray-stress determination in materials."

HUTNICKE LISTY. Brno, Czechoslovakia, Vol. 14, March 1959.

Monthly List of East European Accessions (EEAI), LC. Vol. 8, No. 8, September 1959. Unclas.





S/123/62/000/020/002/007 A006/A101

AUTHORS:

Ježek, Jaroslav, Vobořil, Josef

TITLE:

Structural changes in aging heat-resistant Ni-Cr-base alloys

PERIODICAL:

Referativnyy zhurnal, Mashinostroyeniye, no. 20, 1962, 23, abstract 20B137 ('Material. sb. 1960, Cast 2", Statni výzkumní ústav materialu a technol. Praha, 1960, 71 - 94, Czech; summaries in Russian and

English)

TEXT: To investigate structural changes occurring in the aging of "Nimonik" 80 and H 35 X15 (N35Kh15) type alloys, the authors used optical and electronic microscopes, X-ray, electron-graphical and differential-thermal analyses. The specimens were annealed at 1,050, 1,150, 1,200, 1,300°C for 2 hours, water-cooled and subjected to aging at 600, 650, 700, 750, 800, 850°C for 1 - 2,000 hours (and in some cases for 5,000 hours). It was found that annealing at 1,150°C caused full dissolving of all phases separated out, and of Cr carbide. Annealing at higher temperatures affects the nature of subsequent dispersion annealing and causes, in particular, early singling out of phases rich in titanium - TiC,

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S/123/62/000/020/002/007 A006/A101

Structural changes in...

Ti(CN). In the process of dispersion annealing at $600-650^{\circ}\text{C}$ chromium carbides (Gr₇C₃) are singled out at the grain boundaries. At about 650°C dispersion annealing temperature, the singling-out of fibrous Ti carbides (carbonitrides) was observed in the grains as well as on the grain boundaries. At about 700°C annealing temperature and more a globular phase distinctly appears, whose amount and particle size increase with higher temperature. X-ray structural analysis shows that the particles represent a γ phase composed of Ni₃(Al,Ti) and a γ phase of Ni₃Ti composition. At later stages of dispersion annealing, recrystallization takes place, whose product is a lamellar mixture of two equilibrium phases γ and γ . At annealing temperature as high as about 200°C, a K-structure of an ordered solid solution is formed. In alloys with a high Al content, NiAl-, σ - and N-phases were observed, besides other phases.

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[Abstracter's note: Complete translation]

Card 2/2

Z/056/62/019/008/002/007 1037/1237

!!(1.D B-30 TEEL TROOK PERDORENGE FOR LEGERAL CONTROL OF THE CONTROL OF THE CONTROL OF THE PROPERTY OF THE PR

AUTHORS:

Vystyd, M., Ježek, J., and Keřkovský, O.

TITLE:

Regarding brittleness of glow-proof Chrome-Vanadium steel

PERIODICAL:

Přehled technické a hospodářské literatury. Hutnictví a strojírenství v. 19, no 8, 466,

refabstract HS62-5922 (1960 Praha SVÚMT, STK 12909)

TEXT: Study of basic properties of glow-proof steel for screws CSN 15233. Limit of rigidity at flow. Relaxation properties. Enhancing brittleness by annealing for a period of 10000 hours. The influence of strain on brittleness. There are 2 photos, 18 microphotos, 1 drawing, 21 diagrams, 5 tables, and 2 references From the collection (p. 25-39). Material collection (Materialovy sbornik) 1960, Part II. Glow-proof, glow-resistant and corrosion-resistant steels and alloys.

[Abstracter's note: Complete translation.]

Card 1/1

JEZEK, J.

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Z/034/60/000/07/004/029 E073/E535

/}.//30 authors:

Číhal, Vladimír, Engineer, Candidate of Technical Sciences, Gröbner, Pavel, Ježek, Jaroslav, Doctor of Natural Sciences, Pospíšil, Rudolf, Doctor Engineer

TITLE:

On the Problem of Intercrystallite Corrosion of Austenitic, Cr-Ni Steels Containing 24% Cr and 19% Ni

PERIODICAL: Hutnické listy, 1960, No 7, pp 518-524

ABSTRACT: This paper is intended to commemorate the 60th birthday of Professor Doctor of Technical Sciences Engineer

Josef Teindl, Mining University, Ostrava.

Figure 1987 and 1988 and 1988

Intercrystallite corrosion on austenitic stainless steels is attributed by some authors to the impoverishment of the grains in chromium due to the segregation of carbides at the grain boundaries, others attribute this property to internal stresses caused by the segregated carbides. It is argued in favour of the latter view that intercrystallite corrosion occurs also in steels containing over 20% Cr in which the chromium

content of the grain surface layer cannot decrease sufficiently, to be below 12%. The aim of the work

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२८७५६ 2/034/60/000/07/004/029 В073/В535

On the Problem of Intercrystallite Corrosion of Austenitic, Cr-Ni Steels Containing 24% Cr and 19% Ni

described in this paper was to investigate the validity of this argument and to contribute to the elucidation of the problem of intercrystallite corrosion of the austenitic steel 1Cr24Nil9 (0.09% C, 0.4% Mm, 1.5% Si, 23.2% Cr, 18.7% Ni). The higher chromium content can not only prevent a reduction of the chromium content during segregation of carbides at the grain boundaries below the passivation level but, from the theoretical point of view, it should also increase the resistance of the carbides Cr₂₃C₆ against dissolution in austenite and thereby reduce the relative quantity of carbon in the solid solution at low austenization temperatures. The steel used in the experiments was produced in a high frequency basic furnace, cast into small ingots from which strips of 25 \times 6 mm were forged after machining. On such specimens the tendency to develop intercrystallite corrosion and to separate out chromium carbides in the

Card 2/5

Z/034/60/000/07/004/029 E073/E535

On the Problem of Intercrystallite Corrosion of Austenitic, Cr-Ni Steels Containing 24% Cr and 19% Ni

188 15-28 15-38 18-38

structure after precipitation annealing was investigated. The conditions of heat treatment of the individual specimens are given in Tables 5 and 6, which also contain data on the intensity of intercrystallite corrosion. In these tables "-" denotes no intercrystallite corrosion, "(+)" denotes very slight intercrystal-lite corrosion, "+" to "+++" means increasing intercrystallite corrosion. The specimens were first austenitized at 1100°C. Following that, they were precipitation annealed in the temperature range 500 to To enable comparison of the influence of the austenization temperature, the remaining specimens were additionally annealed at temperatures between 950 and 1250°C with temperature steps increasing by 50°C. A number of photographs (16) are reproduced which were obtained by means of an electron microscope. The obtained results indicate that in spite of the high average chromium content, the chromium content in the

Card 3/5

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